Applicant: Andrew H. Barr et al.

Serial No.: 10/714,302 Filed: Nov. 14, 2003

Docket No.: 200308580-1/H300.216.101

Title: SYSTEM AND METHOD FOR TESTING A MEMORY USING DMA

REMARKS

The following remarks are made in response to the Final Office Action mailed January 12, 2007. Claims 1-20 were rejected. With this Response, claims 1, 5, 9, and 15 have been amended. Claims 1-20 remain pending in the application and are presented for reconsideration and allowance.

Non-Statutory Double Patenting

Claims 1-3 and 6-14 are rejected on non-statutory double patenting grounds.

Applicants respectfully request reconsideration of the non-statutory double patenting rejection of claims 1-3 and 6-14 in view of the amendments to claims 1 and 9.

In addition, because claims 1-3 and 6-14 have not been indicated as allowable, Applicants also respectfully request that the non-statutory double patenting rejection, if maintained, be held in abeyance until claims 1-3 and 6-14 are indicated as allowable except for the non-statutory double patenting rejection.

Claim Rejections under 35 U.S.C. § 103

Claims 1-20 are rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent Publication No. US2003/0115385A1 (Adamane) in view of Microsoft Computer Dictionary (Microsoft).

Claim 1, as amended, recites inter alia:

a core electronics complex including:

a memory controller coupled to the first bus and the memory;

a first input/output (I/O) controller coupled to the first bus and configured to couple to a first set of one or more I/O devices using a first connection; and

a test module coupled to the first I/O controller using a second connection that is separate from the first connection;

wherein the test module is configured to cause tests to be performed on the memory using the first bus.

Neither Adamane nor Microsoft teach or suggest "a first input/output (I/O) controller ... configured to couple to a first set of one or more I/O devices using a first connection; and

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a test module coupled to the first I/O controller using a second connection that is separate from the first connection" as recited in claim 1.

Adamane teaches "I/O devices 118 are testing devices that stress test computer system 100 by performed a series of direct memory access (DMA) transfers of blocks of memory to and from cache memory 104 (and by implication main memory 106)." Paragraph [0015]. Adamane also teaches "an I/O device 200 for stress testing a computer system" Paragraph [0021]. Adamane does not teach or suggest "a test module coupled to the first I/O controller using a second connection that is separate from the first connection" as recited in claim 1.

Accordingly, Applicants respectfully submit that claim 1 patentably distinguishes over the cited references for at least these reasons. Claims 2-8 depend from claim 1 and are believed to patentably distinguish over the cited references for at least the above reasons. Accordingly, Applicants respectfully request the withdrawal of the rejection of claims 1-8 under 35 U.S.C. §103(a).

Claim 9, as amended, recites inter alia:

generating a test transaction in a test module coupled to an input/output (I/O) controller using a first connection that is separate from a second connection that is configured to couple the I/O controller to one or more I/O devices, the test module and the I/O controller included in a chipset coupled to the memory; and

Neither Adamane nor Microsoft teach or suggest these features of claim 9. In particular, Adamane does not teach or suggest "generating a test transaction in a test module coupled to an input/output (I/O) controller using a first connection that is separate from a second connection that is configured to couple the I/O controller to one or more I/O devices" as recited in claim 9 for reasons similar to those given above for claim 1.

Accordingly, Applicants respectfully submit that claim 9 patentably distinguishes over the cited references for at least these reasons. Claims 10-14 depend from claim 9 and are believed to patentably distinguish over the cited references for at least the above reasons. Accordingly, Applicants respectfully request the withdrawal of the rejection of claims 9-14 under 35 U.S.C. §103(a).

Claim 15, as amended, recites inter alia:

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a core electronics complex including:

a system controller coupled to the bus and the memory;

an input /output (I/O) controller coupled to the system controller and configured to couple to a set of one or more I/O devices using a first connection; and

a test module coupled to the I/O controller using a second connection that is separate from the first connection;

Neither Adamane nor Microsoft teach or suggest these features of claim15. In particular, Adamane does not teach or suggest "an input /output (I/O) controller ... configured to couple to a set of one or more I/O devices using a first connection; and a test module coupled to the I/O controller using a second connection that is separate from the first connection" as recited in claim 15 for reasons similar to those given above for claim 1.

Accordingly, Applicants respectfully submit that claim 15 patentably distinguishes over the cited references for at least these reasons. Claims 16-20 depend from claim 15 and are believed to patentably distinguish over the cited references for at least the above reasons. Accordingly, Applicants respectfully request the withdrawal of the rejection of claims 15-20 under 35 U.S.C. §103(a).

CONCLUSION

In view of the above, Applicant respectfully submits that pending claims 1-20 are in form for allowance and are not taught or suggested by the cited references. Therefore, reconsideration and withdrawal of the rejections and allowance of claims 1-20 is respectfully requested.

The Examiner is invited to contact the Applicant's representative at the below-listed telephone numbers to facilitate prosecution of this application.

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Respectfully submitted,

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